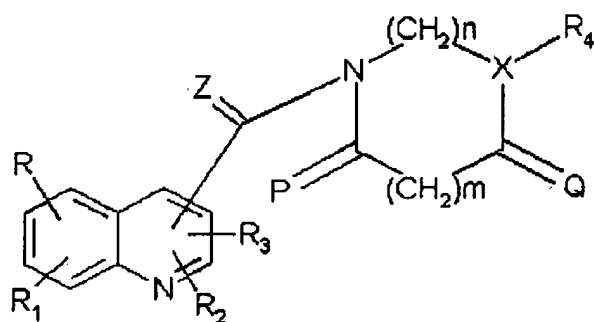


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This listing of claims will replace all prior versions, and listings, of claims in the application:

### LISTING OF CLAIMS:

Claim 1 (currently amended): Quinoline derivatives according to the formula 1



(1)

in which

R, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> can be attached to any of the quinoline carbon atoms C<sub>2</sub> to C<sub>8</sub>, are identical or different and independently of one another denote hydrogen, straight-chain or branched C<sub>1-8</sub>-alkyl, C<sub>1-8</sub> alkyl, C<sub>3-7</sub> cycloalkyl, straight-chain or branched C<sub>1-8</sub> alkylcarbonyl, straight-chain or branched C<sub>1-8</sub> alkoxy, halogen, aryl-C<sub>1-8</sub> alkoxy, nitro, amino, mono-C<sub>1-4</sub> alkylamino, di-C<sub>1-4</sub> alkylamino, C<sub>1-8</sub> alkoxycarbonylamino, C<sub>1-6</sub> alkoxycarbonylamino-C<sub>1-8</sub> alkyl, cyano, straight-chain or branched cyano-(C<sub>1-6</sub>)-alkyl, carboxyl, C<sub>1-8</sub> alkoxycarbonyl, C<sub>1-4</sub> alkyl which is substituted by one or more fluorine atoms, carboxy-C<sub>1-8</sub> alkyl or C<sub>1-8</sub> alkoxycarbonyl-C<sub>1-6</sub> alkyl, C<sub>2-6</sub> alkenyl, C<sub>2-6</sub> alkynyl, straight-chain or branched cyano-C<sub>1-6</sub> alkyl, aryl, where the aryl radical can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of halogen, straight-chain or branched C<sub>1-8</sub> alkyl, C<sub>3-7</sub> cycloalkyl.

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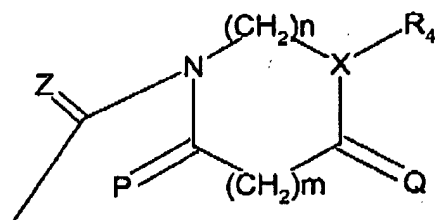
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carboxyl, straight-chain or branched C<sub>1-8</sub> alkoxy, by trifluoromethyl, hydroxyl, straight-chain or branched C<sub>1-8</sub> alkoxy, benzyloxy, nitro, amino, mono-C<sub>1-4</sub> alkylamino, di-C<sub>1-4</sub> alkylamino, cyano, straight-chain or branched cyano-C<sub>1-6</sub> alkyl, where R and R<sub>1</sub> or R<sub>2</sub> and R<sub>3</sub> can form a fused aromatic 6-membered ring with the quinoline ring forming an acridine ring which for its part can be substituted at any C atom ring position by the radicals R, R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> having the meanings mentioned above;

P and Q are each 2 hydrogen atoms;

Z is oxygen or sulfur, where the radical



substituted on the quinoline heterocycle can be attached to C atoms C<sub>2-8</sub> of the quinoline ring skeleton;

X is nitrogen or C-R<sub>5</sub>, where R<sub>5</sub> is hydrogen or C<sub>1-6</sub> alkyl;  
~~n, m independently of one another is an integer between 0 and 3, with the proviso that when n = 0, X is a CR<sub>5</sub>R<sub>6</sub> group wherein R<sub>5</sub> and R<sub>6</sub> independently of one another represent hydrogen or C<sub>1-6</sub> alkyl, and that the nitrogen atom adjacent to the C=Z group is substituted by a hydrogen atom or a C<sub>1-6</sub> alkyl;~~

n is 1 or 2 and m is 0 or 1, with the proviso that the sum of n and m is 2;

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$R_4$  is a straight-chain or branched  $C_{1-20}$  alkyl radical which can be saturated or unsaturated, with one to three double and/or triple bonds, and which can be unsubstituted or can optionally be substituted at the same or different C atoms by one, two or more aryl, heteroaryl, halogen, cyano,  $C_{1-6}$  alkoxycarbonylamino,  $C_{1-6}$  alkoxy, amino, mono- $C_{1-4}$  alkylamino or di- $C_{1-4}$  alkylamino; a  $C_{6-14}$  aryl radical,  ~~$C_{6-14}$  aryl- $C_{1-4}$  alkyl radical~~, or a  $C_{2-10}$  heteroaryl or  $C_{2-10}$  heteroaryl- $C_{1-4}$  alkyl radical which contains one or more heteroatoms selected from the group consisting of N, O and S, where the  $C_{1-4}$  alkyl radical can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of  $C_{1-6}$  alkyl, halogen or oxo (=O) and where the  $C_{6-14}$  aryl or  $C_{2-10}$  heteroaryl radical can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of straight-chain or branched  $C_{1-8}$  alkyl,  $C_{3-7}$  cycloalkyl, halogen, cyano,  $C_{1-6}$  alkoxycarbonylamino,  $C_{1-6}$  alkoxy, carboxyl,  $C_{1-8}$  alkoxycarbonyl, straight-chain or branched  $C_{1-6}$  alkyl which is substituted by one or more fluorine atoms, hydroxyl, straight-chain or branched  $C_{1-8}$  alkoxy, where adjacent oxygen atoms can also be linked by  $C_{1-2}$  alkylene groups, benzyloxy, nitro, amino, mono- $C_{1-4}$  alkylamino, di- $C_{1-4}$  alkylamino, aryl, which can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of straight-chain or branched  $C_{1-8}$  alkyl,  $C_{3-7}$  cycloalkyl, carboxyl, straight-chain or branched  $C_{1-8}$  alkoxycarbonyl, trifluoromethyl, hydroxyl, straight-chain or branched  $C_{1-8}$  alkoxy, benzyloxy, nitro, amino, mono- $C_{1-4}$  alkylamino, di- $C_{1-4}$  alkylamino, cyano, straight-chain or branched cyano- $C_{1-6}$  alkyl;

and their structural isomers and stereoisomers and their pharmaceutically acceptable salts.

Claim 2 (currently amended): The quinoline derivative of ~~claim 1~~ claims 1 or 15, wherein in  ~~$R$ ,  $R_1$ ,  $R_2$ , and  $R_3$~~   $R$ ,  $R_1$ ,  $R_2$  and  $R_3$ , said  $C_{1-8}$  alkylcarbonyl is acetyl, said  $C_{1-8}$  alkoxy is benzyloxy or phenylethoxy, said fluorine atoms are trifluoromethyl, said  $C_{2-6}$  alkenyl is allyl, said  $C_{2-6}$  alkynyl is ethynyl or propargyl, said cyano- $C_{1-6}$  alkyl is cyanomethyl, said  $C_{1-8}$  alkoxy- carbonyl is tert-butoxycarbonyl, and said  $C_{1-8}$  alkoxy is methoxy or ethoxy,

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and in  $R_4$  said fluorine atoms are trifluoromethyl, said  $C_{1-8}$  alkoxy is methoxy or ethoxy, and said  $C_{1-2}$  alkylene group is a methylene group.

Claim 3 (currently amended): The quinoline derivative of formula 1 of claim 1, wherein  $R$ ,  $R_1$ ,  $R_2$ ,  $R_3$ ,  $X$ ,  $Z$ ,  $P$ ,  $Q$ ,  $n$  and  $m$  have the meanings given in claim 1;

$R_4$  is a straight-chain or branched  $C_{1-20}$  alkyl radical which can be saturated or unsaturated, with one to three double and/or triple bonds, and which can be unsubstituted or optionally substituted on the same or different C atoms by one, two or more aryl, heteroaryl, halogen,  $C_{1-6}$  alkoxy, amino, mono-  $C_{1-4}$  alkylamino or di- $C_{1-4}$  alkylamino;

a phenyl ring or a naphthyl ring, each of which can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of straight-chain or branched  $C_{1-8}$  alkyl,  $C_{3-7}$  cycloalkyl, halogen, cyano,  $C_{1-6}$  alkoxycarbonylamino,  $C_{1-6}$  alkoxy, carboxyl,  $C_{1-6}$  alkoxycarbonyl, straight-chain or branched  $C_{1-6}$  alkyl which is substituted by one or more fluorine atoms, hydroxyl, straight-chain or branched  $C_{1-6}$  alkoxy, benzyloxy, nitro, amino, mono-  $C_{1-4}$  alkylamino, di- $C_{1-4}$  alkylamino, aryl, which can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of straight-chain or branched  $C_{1-8}$  alkyl,  $C_{3-7}$  cycloalkyl, carboxyl, straight-chain or branched  $C_{1-8}$  alkoxycarbonyl, by trifluoromethyl, hydroxyl, straight-chain or branched  $C_{1-8}$  alkoxy, benzyloxy, nitro, amino, mono- $C_{1-4}$  alkylamino, di- $C_{1-4}$  alkylamino, cyano, straight-chain or branched cyano-  $C_{1-6}$  alkyl;

~~a 2, 4, 5 or 6 pyrimidinyl radical, or a 2, 4, 5 or 6 pyrimidinyl  $C_{1-4}$  alkyl radical, wherein the  $C_{1-4}$  alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of  $C_{1-6}$  alkyl, halogen or oxo (=O) and the 2, 4, 5 or 6 pyrimidinyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y~~

~~wherein Y is a  $C_{1-6}$  alkyl, halogen, nitro, amino, mono- $C_{1-6}$  alkylamino, di- $C_{1-6}$  alkylamino, hydroxyl,  $C_{1-6}$  alkoxy, benzyloxy, carboxyl,  $C_{1-6}$  alkoxycarbonyl,  $C_{1-6}$~~

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~~alkoxy-carbonylamino or C<sub>1-6</sub>-alkyl which is mono- or polysubstituted by fluorine, C<sub>6-10</sub>-aryl and C<sub>6-10</sub>-aryl-C<sub>1-6</sub>-alkyl;~~

~~a 3, 4, 5- or 6- pyridazinyl radical, or a 3, 4, 5- or 6- pyridazinyl-C<sub>1-4</sub>-alkyl radical, wherein the C<sub>1-4</sub>-alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub>-alkyl, halogen or oxo (=O), and the 3, 4, 5- or 6- pyridazinyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 2, 3, 5- or 6- pyrazinyl radical, or a 2, 3, 5- or 6- pyrazinyl-C<sub>1-4</sub>-alkyl radical, wherein the C<sub>1-4</sub>-alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub>-alkyl, halogen or oxo (=O), and the 2, 3, 5- or 6- pyrazinyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y; a 3, 4, 5, 6, 7, or 8- cinnolinyl radical, or a 3, 4, 5, 6, 7, or 8- cinnolinyl-C<sub>1-4</sub>-alkyl radical, wherein the C<sub>1-4</sub>-alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub>-alkyl, halogen or oxo (=O), and the 3, 4, 5, 6, 7, or 8- cinnolinyl radical can be unsubstituted or mono- or up to pentasubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 2, 4, 5, 6, 7, or 8- quinazolinyl radical, or a 2, 4, 5, 6, 7 or 8- quinazolinyl-C<sub>1-4</sub>-alkyl radical, wherein the C<sub>1-4</sub>-alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of hydrogen, C<sub>1-6</sub>-alkyl, halogen or oxo (=O), and the 2, 4, 5, 6, 7, or 8- quinazolinyl radical can be unsubstituted or mono- or up to pentasubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 2, 3, 5, 6, 7, or 8- quinoxaliny radical, or a 2, 3, 5, 6, 7, or 8- quinoxaliny-C<sub>1-4</sub>-alkyl radical, wherein the C<sub>1-4</sub>-alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub>-alkyl, halogen or oxo (=O), and the 2, 3, 5, 6, 7, or 8- quinoxaliny radical can be unsubstituted or~~

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~~mono- or up to pentasubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 1, 4, 5, 6, 7, or 8-phthalazinyl radical, or a 1, 4, 5, 6, 7, or 8-phthalazinyl C<sub>1-4</sub> alkyl radical, wherein the C<sub>1-4</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1, 4, 5, 6, 7, or 8-phthalazinyl radical can be unsubstituted or mono- or up to pentasubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 2, 3, 4, 5, 6, 7 or 8-quinolyl radical, or a 2, 3, 4, 5, 6, 7 or 8-quinolyl C<sub>1-4</sub> alkyl radical, wherein the C<sub>1-4</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2, 3, 4, 5, 6, 7 or 8-quinolyl radical can be unsubstituted or mono- or up to hexasubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 1, 3, 4, 5, 6, 7 or 8-isoquinolyl radical, or a 1, 3, 4, 5, 6, 7 or 8-isoquinolyl C<sub>1-4</sub> alkyl radical, wherein the C<sub>1-4</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1, 4, 5, 6, 7 or 8-isoquinolyl radical can be unsubstituted or mono- or up to hexasubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 2, 6, 8 or 9 [9H] purinyl radical, or a 2, 6, 8 or 9 [9H] purinyl C<sub>1-4</sub> alkyl radical, wherein the C<sub>1-4</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2, 6, 8 or 9 [9H] purinyl radical can be unsubstituted or mono- to trisubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 2, 6, 7 or 8 [7H] purinyl radical, or a 2, 6, 7 or 8 [7H] purinyl C<sub>1-4</sub> alkyl radical, wherein the C<sub>1-4</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the~~

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~~2, 6, 7 or 8 [7H] purinyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 1, 2, 3, 4, 5, 6, 7, 8 or 9 acridinyl radical, or a 1, 2, 3, 4, 5, 6, 7, 8 or 9 acridinyl C<sub>1-6</sub> alkyl radical, where the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1, 2, 3, 4, 5, 6, 7, 8 or 9 acridinyl radical can be unsubstituted or mono- to octasubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 1, 2, 3, 4, 5, 6, 7, 8 or 9 phenanthridinyl radical, or a 1, 2, 3, 4, 5, 6, 7, 8 or 9 phenanthridinyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of hydrogen, C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1, 2, 3, 4, 5, 6, 7, 8 or 9 phenanthridinyl radical can be unsubstituted or mono- or up to octasubstituted by the same or different substituents of Y;~~

~~a 2, 3, 4, 5 or 6 pyridyl radical where the 2, 3, 4, 5 or 6 pyridyl radical can be unsubstituted or mono- or up to tetrasubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 2, 3, 4, 5 or 6 pyridinyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2, 3, 4, 5 or 6 pyridinyl radical can be unsubstituted or mono- or up to tetrasubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 2, 3, 4 or 5 thienyl radical, or a 2, 3, 4 or 5 thienyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2, 3, 4 or 5 thienyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;~~

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~~a 2, 4, or 5-thiazolyl radical, or a 2, 4, or 5-thiazolyl C<sub>1-6</sub> alkyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2, 4, or 5-thiazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 3, 4, or 5-isothiazolyl radical, or a 3, 4, or 5-isothiazolyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 3, 4, or 5-isothiazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 2, 4, 5, 6, or 7-benzothiazolyl radical, or a 2, 4, 5, 6, or 7-benzothiazolyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2, 4, 5, 6, or 7-benzothiazolyl radical can be unsubstituted or mono- or up to tetrasubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 1, 2, 4, or 5-imidazolyl radical, or a 1, 2, 4, or 5-imidazolyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1, 2, 4, or 5-imidazolyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 1, 3, 4, or 5-pyrazolyl radical, or a 1, 3, 4 or 5-pyrazolyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1, 3, 4- or 5-pyrazolyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;~~



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~~a 1, 2, 3, 4, or 5 pyrrolyl radical, or a 1, 2, 3, 4, or 5 pyrrolyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1, 2, 3, 4 or 5 pyrrolyl radical can be unsubstituted or mono- or up to tetrasubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 1, 3, or 5 [1.2.4] triazolyl radical, or a 1, 3, or 5 [1.2.4] triazolyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of hydrogen, C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1, 3, or 5 [1.2.4] triazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from Y;~~

~~a 1, 4, or 5 [1.2.3] triazolyl radical, or a 1, 4, or 5 [1.2.3] triazolyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1, 4, or 5 [1.2.3] triazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 1- or 5 [1H] tetrazolyl radical, or a 1, or 5 [1H] tetrazolyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1, or 5 [1H] tetrazolyl radical can be unsubstituted or substituted by hydrogen, or Y;~~

~~a 2- or 5 [2H] tetrazolyl radical, or a 2- or 5 [2H] tetrazolyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2- or 5 [2H] tetrazolyl radical can be unsubstituted or substituted by hydrogen, or Y;~~

~~a 2, 4, or 6 [1.3.5] triazinyl radical, or a 2, 4, or 6 [1.3.5] triazinyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of hydrogen, C<sub>1-6</sub> alkyl, halogen or oxo~~

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~~(=O), and the 2, 4, or 6 [1,3,5] triazinyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 2, 4, or 5 oxazolyl radical, or a 2, 4, or 5 oxazolyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2, 4, or 5 oxazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 3, 4, or 5 isoxazolyl radical, or a 3, 4, or 5 isoxazolyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 3, 4, or 5 isoxazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;~~

~~a 1, 2, 3, 4, 5, 6 or 7 indolyl radical, or a 1, 2, 3, 4, 5, 6 or 7 indolyl C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1, 2, 3, 4, 5, 6 or 7 indolyl radical can be unsubstituted or mono- or up to hexasubstituted by the same or different substituents from the group of hydrogen, or Y.~~

Claim 4 (currently amended): The quinoline derivative of ~~claim 3~~ claims 3 or 16, wherein in R<sub>4</sub> said fluorine atoms are trifluoromethyl, and said C<sub>1-8</sub> alkoxy is methoxy or ethoxy.

Claim 5 (original): The quinoline derivative of claim 1, wherein R, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, X, Z, P, Q, n and m have the meanings given above, and R<sub>4</sub> is phenyl which is unsubstituted or substituted by one to five the same or different C<sub>1-6</sub> alkoxy groups, where adjacent oxygen atoms can also be linked by C<sub>1-2</sub> alkylene groups.

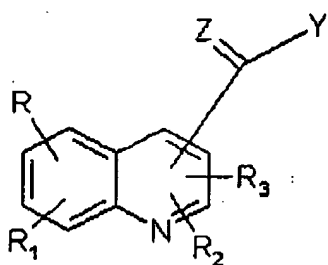
Claim 6 (original): The quinoline derivative of claim 1, wherein R, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, X, Z, P, Q, n and m have the meanings given above and R<sub>4</sub> is 3,5-dimethoxyphenyl.

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Claim 7 (currently amended): The quinoline derivative of ~~claim 1~~ claims 1 or 15, wherein  $R_4$  has the meanings given above,  $R$ ,  $R_1$ ,  $R_2$ ,  $R_3$  each is hydrogen,  $Z$  is an oxygen atom,  $X$  is a nitrogen atom,  $P$  and  $Q$  are each two hydrogen atoms as in  $-(CH_2)CH_2-$ ,  $m$  is zero, and  $n$  is 2.

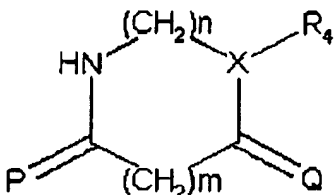
Claim 8 (currently amended): The quinoline derivative of claim 1, wherein  $R$ ,  $R_1$ ,  $R_2$ ,  $R_3$  are each a hydrogen atom,  $Z$  is an oxygen atom,  $X$  is a nitrogen atom,  $P$  and  $Q$  each are two hydrogen atoms as in  $-(CH_2)CH_2-$ ,  $m$  is zero,  $n$  is 2, and  $[R_4]R_4$  is a 3,5-dimethoxyphenyl radical.

Claim 9 (currently amended): A process for preparing the quinoline derivative of ~~claim 1~~ claims 1 or 15, which comprises reacting a quinoline carboxylic acid of formula (2)



(2)

in which  $R$ ,  $R_1$ ,  $R_2$ ,  $R_3$  have the meanings given above,  $Z$  is an oxygen or sulfur atom, and  $Y$  is a leaving group with an amine of formula (3)



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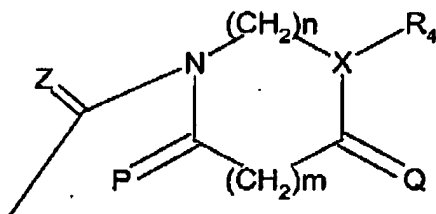
(1)

in which

R, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> can be attached to any of the quinoline carbon atoms C<sub>2</sub> to C<sub>8</sub>, are identical or different and independently of one another denote hydrogen, straight-chain or branched C<sub>1-8</sub> alkyl, C<sub>3-7</sub> cycloalkyl, straight-chain or branched C<sub>1-8</sub> alkylcarbonyl, straight-chain or branched C<sub>1-8</sub> alkoxy, halogen, aryl-C<sub>1-8</sub> alkoxy, nitro, amino, mono-C<sub>1-4</sub> alkylamino, di-C<sub>1-4</sub> alkylamino, C<sub>1-8</sub> alkoxycarbonylamino, C<sub>1-6</sub> alkoxycarbonylamino-C<sub>1-8</sub> alkyl, cyano, straight-chain or branched cyano-(C<sub>1-6</sub>)-alkyl, carboxyl, C<sub>1-8</sub> alkoxycarbonyl, C<sub>1-4</sub> alkyl which is substituted by one or more fluorine atoms, carboxy-C<sub>1-8</sub> alkyl or C<sub>1-8</sub> alkoxycarbonyl-C<sub>1-6</sub> alkyl, C<sub>2-6</sub> alkenyl, C<sub>2-6</sub> alkynyl, straight-chain or branched cyano-C<sub>1-6</sub> alkyl, aryl, where the aryl radical can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of halogen, straight-chain or branched C<sub>1-8</sub> alkyl, C<sub>3-7</sub> cycloalkyl, carboxyl, straight-chain or branched C<sub>1-8</sub> alkoxycarbonyl, by trifluoromethyl, hydroxyl, straight-chain or branched C<sub>1-8</sub> alkoxy, benzyloxy, nitro, amino, mono-C<sub>1-4</sub> alkylamino, di-C<sub>1-4</sub> alkylamino, cyano, straight-chain or branched cyano-C<sub>1-6</sub> alkyl, where R and R<sub>1</sub> or R<sub>2</sub> and R<sub>3</sub> can form a fused aromatic 6-membered ring with the quinoline ring forming an acridine ring which for its part can be substituted at any C atom ring position by the radicals R, R<sub>1</sub>, R<sub>2</sub> and R<sub>3</sub> having the meanings mentioned above;

P and Q are each 2 hydrogen atoms;

Z is oxygen or sulfur, where the radical



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substituted on the quinoline heterocycle can be attached to C atoms C<sub>2-8</sub> of the quinoline ring skeleton;

X is nitrogen;

n is 1 or 2 and m is 0 or 1, with the proviso that the sum of n and m is 2;

R<sub>4</sub> is C<sub>6-14</sub> aryl-C<sub>1-4</sub> alkyl radical where the C<sub>1-4</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of C<sub>1-6</sub> alkyl, halogen or oxo (=O) and where the C<sub>6-14</sub> aryl or C<sub>2-10</sub> heteroaryl radical can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of straight-chain or branched C<sub>1-8</sub> alkyl, C<sub>3-7</sub> cycloalkyl, halogen, cyano, C<sub>1-6</sub> alkoxycarbonylamino, carboxyl, C<sub>1-8</sub> alkoxycarbonyl, straight-chain or branched C<sub>1-6</sub> alkyl which is substituted by one or more fluorine atoms, hydroxyl, straight-chain or branched C<sub>1-8</sub> alkoxy, where adjacent oxygen atoms can also be linked by C<sub>1-2</sub> alkylene groups, benzyloxy, nitro, amino, mono-C<sub>1-4</sub> alkylamino, di-C<sub>1-4</sub> alkylamino, aryl, which can be unsubstituted or mono- or polysubstituted by identical or different substituents from the group consisting of straight-chain or branched C<sub>1-8</sub> alkyl, C<sub>3-7</sub> cycloalkyl, carboxyl, straight-chain or branched C<sub>1-8</sub> alkoxycarbonyl, trifluoromethyl, hydroxyl, straight-chain or branched C<sub>1-8</sub> alkoxy, benzyloxy, nitro, amino, mono-C<sub>1-4</sub> alkylamino, di-C<sub>1-4</sub> alkylamino, cyano, straight-chain or branched cyano-C<sub>1-6</sub> alkyl;

and their structural isomers and stereoisomers and their pharmaceutically acceptable salts.

Claim 16 (new): The quinoline derivative of formula 1 of claim 15, wherein R, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, X, Z, P, Q, n and m have the meanings given in claim 15;

R<sub>4</sub> is

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a 2-, 4-, 5- or 6-pyrimidinyl radical, or a 2-, 4-, 5- or 6-pyrimidinyl- $C_{1-4}$  alkyl radical, wherein the  $C_{1-4}$  alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of  $C_{1-6}$  alkyl, halogen or oxo (=O) and the 2-, 4-, 5- or 6-pyrimidinyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y

wherein Y is a  $C_{1-6}$  alkyl, halogen, nitro, amino, mono- $C_{1-6}$  alkylamino, di- $C_{1-6}$  alkylamino, hydroxyl,  $C_{1-6}$  alkoxy, benzyloxy, carboxyl,  $C_{1-6}$  alkoxycarbonyl,  $C_{1-6}$  alkoxycarbonylamino or  $C_{1-6}$  alkyl which is mono- or polysubstituted by fluorine,  $C_{6-10}$  aryl and  $C_{6-10}$  aryl- $C_{1-6}$  alkyl;

a 3-, 4-, 5- or 6-pyridazinyl radical, or a 3-, 4-, 5- or 6-pyridazinyl- $C_{1-4}$  alkyl radical, wherein the  $C_{1-4}$  alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of  $C_{1-6}$  alkyl, halogen or oxo (=O), and the 3-, 4-, 5- or 6-pyridazinyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 3-, 5- or 6-pyrazinyl radical, or a 2-, 3-, 5- or 6-pyrazinyl- $C_{1-4}$  alkyl radical, wherein the  $C_{1-4}$  alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of  $C_{1-6}$  alkyl, halogen or oxo (=O), and the 2-, 3-, 5- or 6-pyrazinyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y; a 3-, 4-, 5-, 6-, 7-, or 8-cinnolinyl radical, or a 3-, 4-, 5-, 6-, 7-, or 8-cinnolinyl- $C_{1-4}$  alkyl radical, wherein the  $C_{1-4}$  alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of  $C_{1-4}$  alkyl, halogen or oxo (=O), and the 3-, 4-, 5-, 6-, 7-, or 8-cinnolinyl radical can be unsubstituted or mono- or up to pentasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 4-, 5-, 6-, 7-, or 8-quinazolinyl radical, or a 2-, 4-, 5-, 6-, 7 or 8-quinazolinyl- $C_{1-4}$  alkyl radical, wherein the  $C_{1-4}$  alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of hydrogen,  $C_{1-6}$

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alkyl, halogen or oxo (=O), and the 2-, 4-, 5-, 6-, 7-, or 8-quinazolinyl radical can be unsubstituted or mono- or up to pentasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 3-, 5-, 6-, 7-, or 8-quinoxaliny radical, or a 2-, 3-, 5-, 6-, 7-, or 8-quinoxaliny-C<sub>1-4</sub> alkyl radical, wherein the C<sub>1-4</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2-, 3-, 5-, 6-, 7-, or 8-quinoxaliny radical can be unsubstituted or mono- or up to pentasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 4-, 5-, 6-, 7-, or 8-phthalaziny radical, or a 1-, 4-, 5-, 6-, 7-, or 8-phthalaziny-C<sub>1-4</sub> alkyl radical, wherein the C<sub>1-4</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1-, 4-, 5-, 6-, 7-, or 8-phthalaziny radical can be unsubstituted or mono- or up to pentasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 3-, 4-, 5-, 6-, 7- or 8-quinolyl radical, or a 2-, 3-, 4-, 5-, 6-, 7 or 8-quinolyl-C<sub>1-4</sub> alkyl radical, wherein the C<sub>1-4</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2-, 3-, 4-, 5-, 6-, 7- or 8-quinolyl radical can be unsubstituted or mono- or up to hexasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 3-, 4-, 5-, 6-, 7- or 8-isoquinolyl radical, or a 1-, 3-, 4-, 5-, 6-, 7- or 8-isoquinolyl-C<sub>1-4</sub> alkyl radical, wherein the C<sub>1-4</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1-, 4-, 5-, 6-, 7- or 8-isoquinolyl radical can be unsubstituted or mono- or up to hexasubstituted by the same or different substituents from the group of hydrogen, or Y;



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a 2-, 6-, 8- or 9-[9H]-purinyl radical, or a 2-, 6-, 8- or 9-[9H]-purinyl-C<sub>1-4</sub> alkyl radical, wherein the C<sub>1-4</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2-, 6-, 8- or 9-[9H]-purinyl radical can be unsubstituted or mono- to trisubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 6-, 7- or 8-[7H]-purinyl radical, or a 2-, 6-, 7- or 8-[7H]-purinyl-C<sub>1-4</sub> alkyl radical, wherein the C<sub>1-4</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2-, 6-, 7- or 8-[7H]-purinyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 2-, 3-, 4-, 5-, 6-, 7-, 8- or 9-acridinyl radical, or a 1-, 2-, 3-, 4-, 5-, 6-, 7-, 8- or 9-acridinyl-C<sub>1-4</sub> alkyl radical, where the C<sub>1-4</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1-, 2-, 3-, 4-, 5-, 6-, 7-, 8- or 9-acridinyl radical can be unsubstituted or mono- to octasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 2-, 3-, 4-, 5-, 6-, 7-, 8- or 9-phenanthridinyl radical, or a 1-, 2-, 3-, 4-, 5-, 6-, 7-, 8- or 9-phenanthridinyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of hydrogen, C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1-, 2-, 3-, 4-, 5-, 6-, 7-, 8- or 9-phenanthridinyl radical can be unsubstituted or mono- or up to octasubstituted by the same or different substituents of Y;

a 2-, 3-, 4-, 5- or 6-pyridyl radical where the 2-, 3-, 4-, 5- or 6pyridyl radical can be unsubstituted or mono- or up to tetrasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 3-, 4-, 5- or 6-pyridinyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the

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group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2-, 3-, 4-, 5- or 6-pyridinyl radical can be unsubstituted or mono- or up to tetrasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 3-, 4- or 5-thienyl radical, or a 2-, 3-, 4- or 5-thienyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2-, 3-, 4- or 5-thienyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 4-, or 5-thiazolyl radical, or a 2-, 4-, or 5-thiazolyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2-, 4-, or 5-thiazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;

a 3-, 4-, or 5-isothiazolyl radical, or a 3-, 4-, or 5-isothiazolyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 3-, 4-, or 5-isothiazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 4-, 5-, 6-, or 7-benzothiazolyl radical, or a 2-, 4-, 5-, 6-, or 7-benzothiazolyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2-, 4-, 5-, 6-, or 7-benzothiazolyl radical can be unsubstituted or mono- or up to tetrasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 2-, 4-, or 5-imidazolyl radical, or a 1-, 2-, 4-, or 5-imidazolyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the

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1-, 2-, 4-, or 5-imidazolyl radical can be unsubstituted or mono- or up to trisubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 3-, 4-, or 5-pyrazolyl radical, or a 1-, 3-, 4- or 5-pyrazolyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1-, 3-, 4- or 5-pyrazolyl radical can be unsubstituted or mono- or up to trisubstituted by the same of different substituents from the group of hydrogen, or Y;

a 1-, 2-, 3-, 4-, or 5-pyrrolyl radical, or a 1-, 2-, 3-, 4-, or 5-pyrrolyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1-, 2-, 3-, 4- or 5-pyrrolyl radical can be unsubstituted or mono- or up to tetrasubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 3-, or 5-[1.2.4]-triazolyl radical, or a 1-, 3-, or 5-[1.2.4]-triazolyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of hydrogen, C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1-, 3-, or 5-[1.2.4]-triazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from Y;

a 1-, 4-, or 5-[1.2.3]-triazolyl radical, or a 1-, 4-, or 5-[1.2.3]-triazolyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1-, 4-, or 5-[1.2.3]-triazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1- or 5-[1H]-tetrazolyl radical, or a 1-, or 5-[1H]-tetrazolyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1-, or 5-[1H]-tetrazolyl radical can be unsubstituted or substituted by hydrogen, or Y;

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a 2- or 5-[2H]-tetrazoyl radical, or a 2- or 5-[2H]-tetrazoyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2- or 5-[2H]-tetrazoyl radical can be unsubstituted or substituted by hydrogen, or Y;

a 2-, 4-, or 6-[1.3.5]-triazinyl radical, or a 2-, 4-, or 6-[1.3.5]-triazinyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of hydrogen, C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2-, 4-, or 6-[1.3.5]-triazinyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;

a 2-, 4-, or 5-oxazolyl radical, or a 2-, 4-, or 5-oxazolyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 2-, 4-, or 5-oxazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;

a 3-, 4-, or 5-isoxazolyl radical, or a 3-, 4-, or 5-isoxazolyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 3-, 4-, or 5-isoxazolyl radical can be unsubstituted or mono- or disubstituted by the same or different substituents from the group of hydrogen, or Y;

a 1-, 2-, 3-, 4-, 5-, 6- or 7-indolyl radical, or a 1-, 2-, 3-, 4-, 5-, 6 or 7-indolyl-C<sub>1-6</sub> alkyl radical, wherein the C<sub>1-6</sub> alkyl radical can be unsubstituted or mono- or polysubstituted by the same or different substituents from the group of C<sub>1-6</sub> alkyl, halogen or oxo (=O), and the 1-, 2-, 3-, 4-, 5-, 6- or 7-indolyl radical can be unsubstituted or mono- or up to hexasubstituted by the same or different substituents from the group of hydrogen, or Y.